

## **ABSTRACT**

A display system using a hologram pattern liquid crystal can adjust color and quantity of light selectively for each and every pixel. The display system includes a plurality of first electrodes formed in line in the same direction, a plurality of second electrodes formed in line in a direction perpendicular to the first electrodes, liquid crystals having hologram patterns formed in a pixel area between the first and second electrodes, an optical waveguide for transferring light to the pixel area, and a light source, located in a side area of the optical waveguide, for generating the light.